RECLAMATION

Managing Water in the West





U.S. Department of the Interior Bureau of Reclamation

Heather Hermansen Upper Colorado Region Hydraulic Engineer

Fontenelle Reservoir Current Status

As of 4/24/13

Storage

Live Capacity 345,000 AF

Capacity on 4/24/13 130,300 AF

(38% full) typical for April

Pool Elevation

Top of reservoir 6506.0 ft

Elevation on 4/24/13 6472.73 ft

Elevation below top 33.3 ft

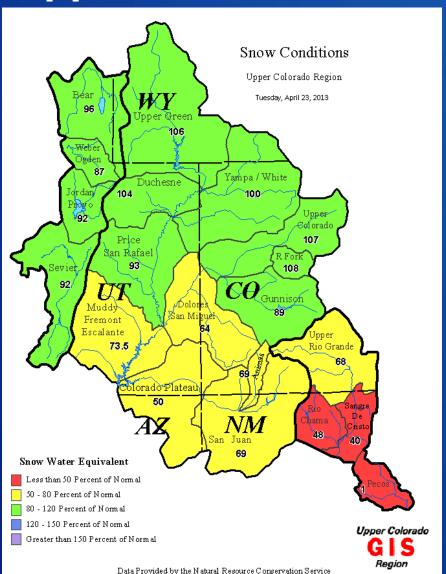
Inflow and Release

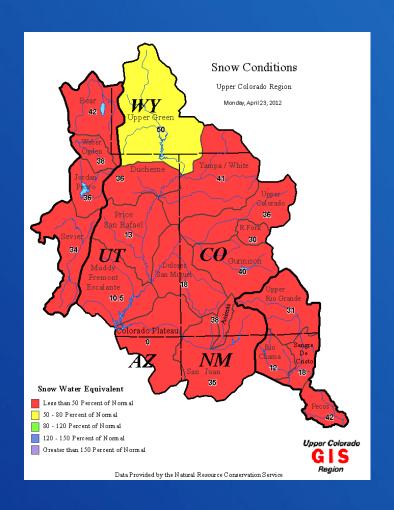
5 Day Average Inflow 650 cfs

Current Release on 4/24/13 850 cfs

* Expect steady releases throughout the season

Upper Colorado Basin Snow Conditions

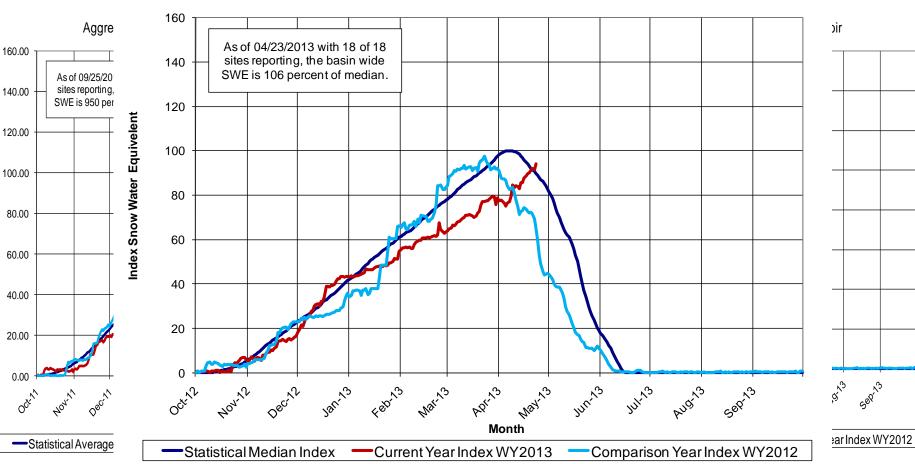




Upper Green Basin Snow Conditions



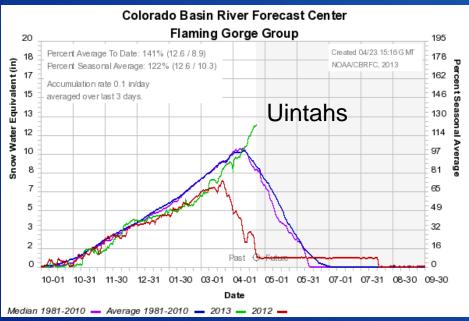
Aggregate of 18 Snotel Sites above Flaming Gorge Reservoir

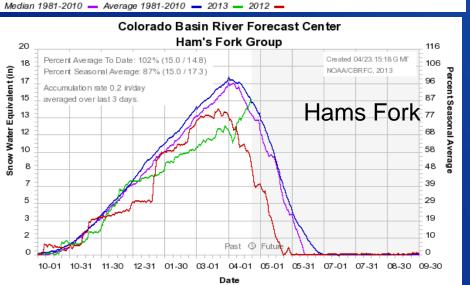


Index Snow Water Equivelent

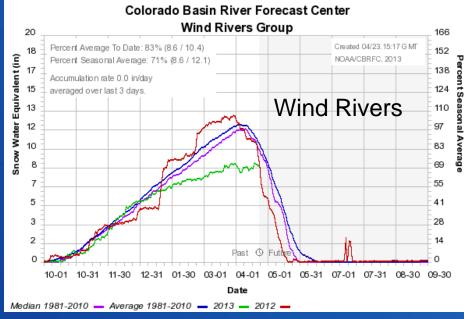
Data Provided by the Natural Resource Conservation Service

Upper Green Basin Snow Conditions





Median 1981-2010 - Average 1981-2010 - 2013 - 2012 -



Drought Conditions

U.S. Drought Monitor

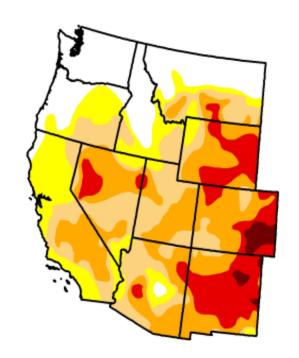
April 16, 2013

Valid 7 a.m. EST

West

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	19.84	80.16	63.67	41.05	14.73	1.64
Last Week (04/09/2013 map)	19.71	80.29	63.56	41.59	16.73	2.41
3 Months Ago (01/15/2013 map)	24.75	75.25	68.24	44.51	17.27	2.15
Start of Calendar Year (01/01/2013 map)	24.39	75.61	69.31	45.04	18.01	2.15
Start of Water Year (09/25/2012 map)	15.12	84.88	77.15	43.65	16.85	1.77
One Year Ago (04/10/2012 map)	31.33	68.67	48.44	24.87	3.77	0.93



Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu





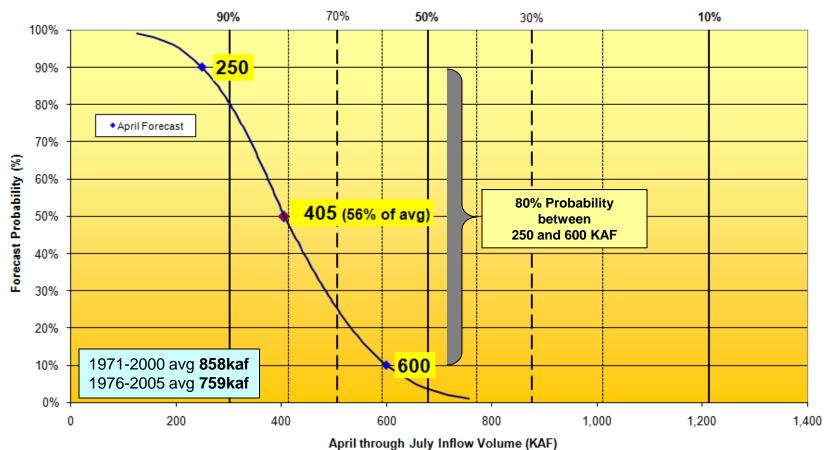


Released Thursday, April 18, 2013
David Miskus, NOAA/NWS/NCEP/Climate Prediction Center

April Official Forecast

Fontenelle Reservoir April - July Forecasted Inflow

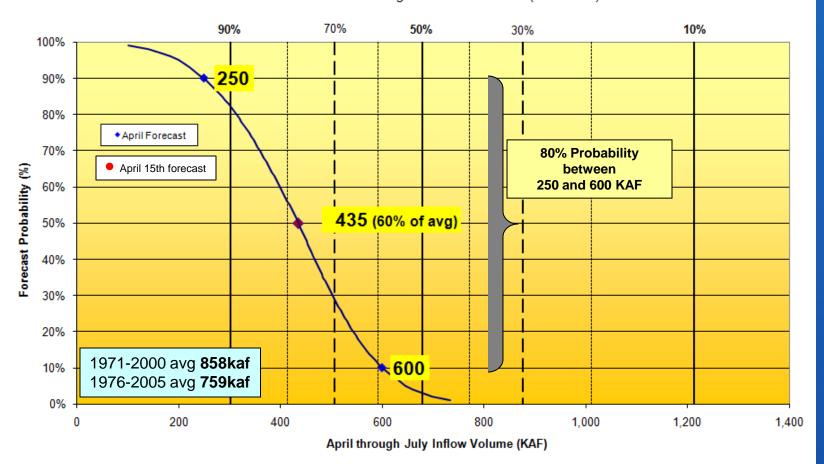
Related to Exceedance Percentages for Historic Period (1981-2010)



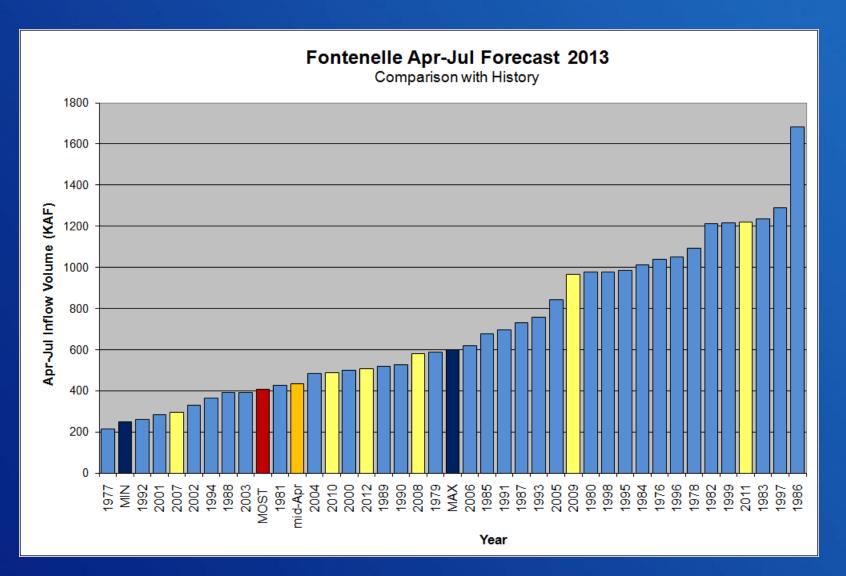
April 15th Forecast

Fontenelle Reservoir April - July Forecasted Inflow

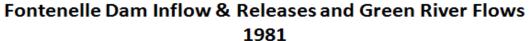
Related to Exceedance Percentages for Historic Period (1981-2010)

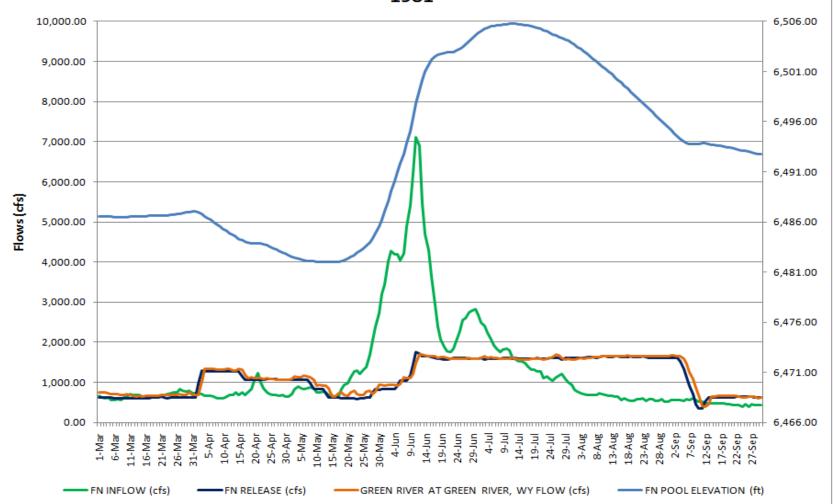


2013 Forecast

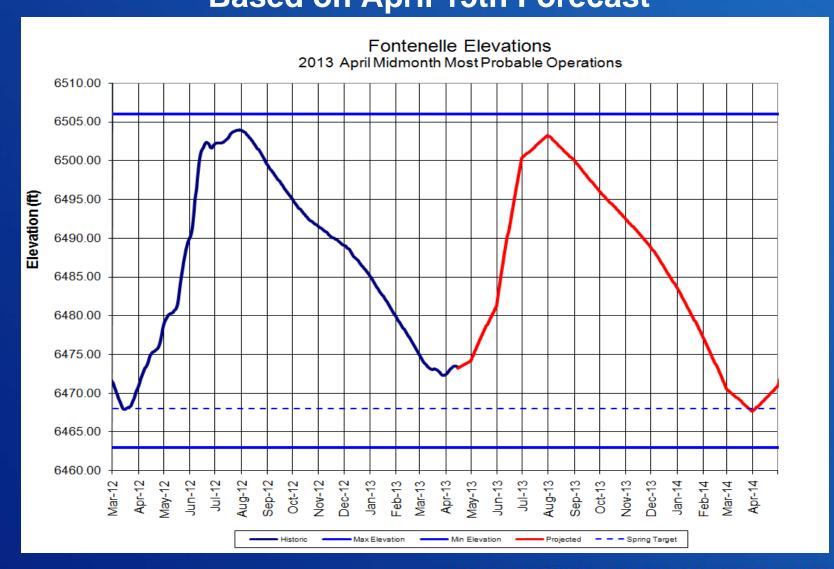


2003 Hydrology

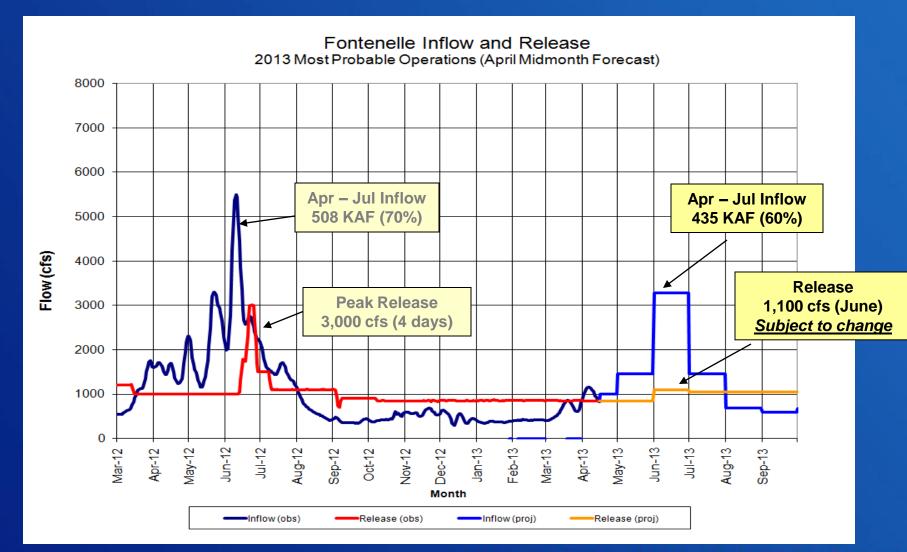




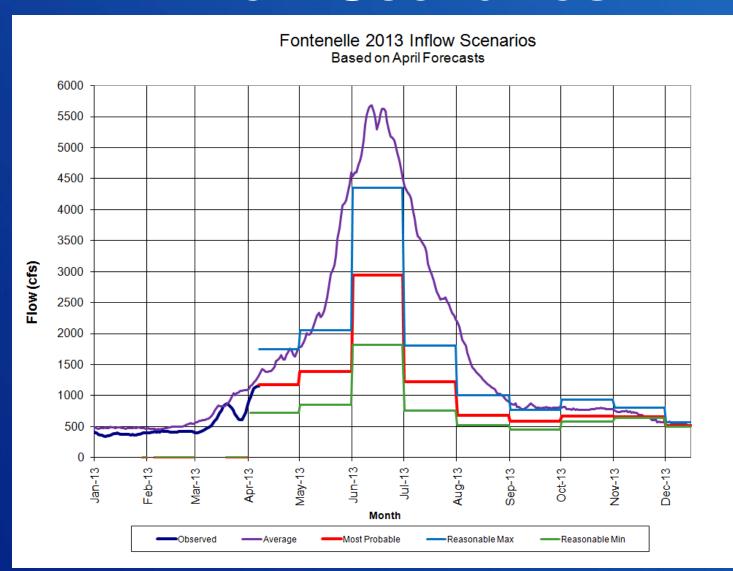
Projected Reservoir Elevation Based on April 15th Forecast



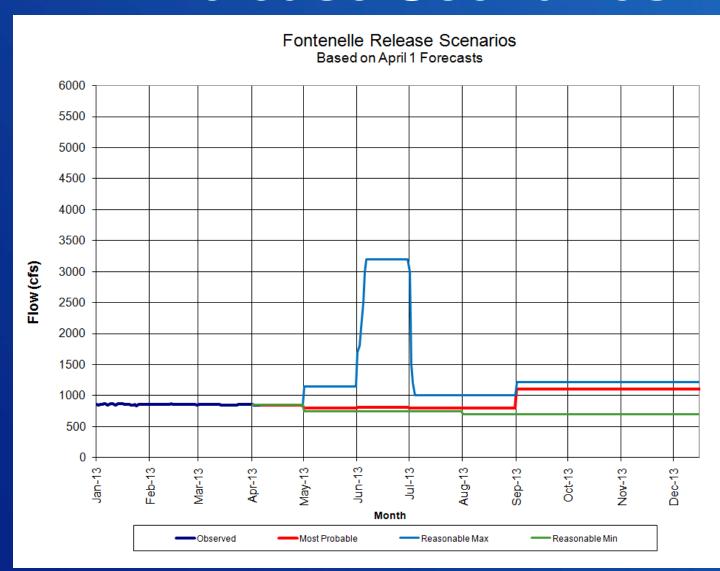
Projected Inflow and Release Based on April 15th Forecast



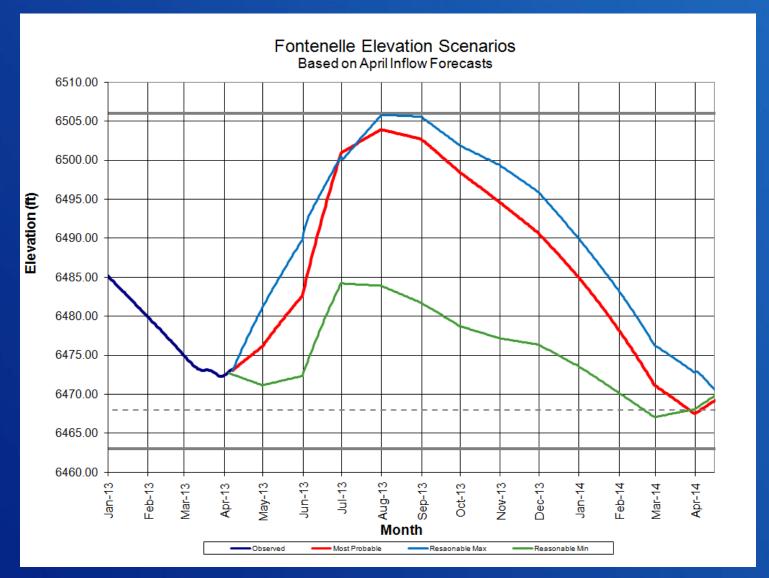
Inflow Scenarios



Release Scenarios



Elevation Scenarios



Fontenelle Working Group Meeting April 2013

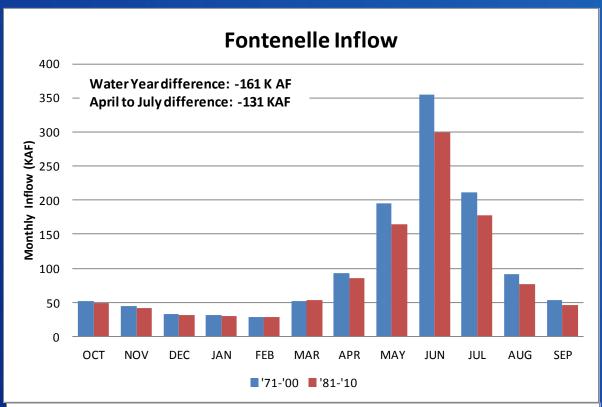


Additional Slides Follow

Historic Inflow Statistics

Period of Record 1971-2000

MONTHLY INFLOW VOLUME(THOUSAND-ACRE-FEET)										
%	60%	50%	40%	30%	25%	20%	10%	5%	Average	
2	44	48	51	56	59	62	71	80	52	
2	44	45	47	48	49	49	51	52	44	
3	33	34	35	36	36	37	38	39	33	
1	32	32	33	34	34	34	35	36	31	
9	30	30	31	32	32	32	33	33	29	
7	49	51	53	56	57	59	64	68	52	
9	86	92	99	107	111	116	129	141	93	
6 9	189	207	223	240	248	257	280	296	196	
61	304	345	388	434	463	491	571	640	355	
51	180	207	234	264	282	300	350	393	212	
3	83	91	99	108	113	117	130	140	91	
6	50	53	57	61	63	65	71	75	53	
02	1,123	1,236	1,350	1,473	1,546	1,619	1,824	1,995	1,243	
60	758	851	944	1.045	1.104	1.164	1.331	1.471	857	







Historic Inflow Statistics

Period of Record 1981-2000

MONTHLY INFLOW VOLUME(THOUSAND-ACRE-FEET)									
70%	60%	50%	40%	30%	25%	20%	10%	5%	Average
37	41	44	49	54	57	60	71	81	49
40	42	44	45	47	48	49	51	53	42
31	32	32	33	34	35	35	37	38	32
29	30	31	32	33	34	34	36	37	30
27	28	29	29	30	30	31	32	33	28
49	51	53	55	58	59	60	64	68	53
68	74	81	88	97	102	108	126	142	85
128	147	164	182	201	212	224	255	282	164
198	234	271	311	358	389	419	514	601	299
112	137	162	189	220	240	259	318	371	178
52	62	72	83	94	101	107	126	141	77
36	40	44	49	54	57	59	68	75	46
806	917	1,028	1,146	1,279	1,363	1,446	1,697	1,921	1,082
506	592	678	770	876	943	1,010	1,213	1,396	726